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What is claimed is:

1 1. A content supply apparatus, interposed between a portable  
2 terminal and a content server, for obtaining content demanded by  
3 the portable terminal to obtain and sending to the portable  
4 terminal, comprising:

5       a content hold means for holding the content obtained from  
6   the content server;

7 a divided content supply means for obtaining the content  
8 demanded by the portable terminal from said content hold means if  
9 the same exists in said means, and from the content server if the  
10 same does not exist, and transmitting to the portable terminal by  
11 divided content unit of every information amount that can be  
12 displayed by the portable terminal; and

13        a prefetcher means for prefetching the other contents  
14 referred from said divided content, by transmitted divided  
15 content unit, from the content server, and storing in said  
16 content hold means.

1 2. The content supply apparatus of claim 1, comprising:

2       a link information format conversion section for mutual  
3 conversion of URI format link information and ID number format  
4 link information; and

5        wherein, said divided content supply means transmits link  
6        information in the divided content to be transmitted to the  
7        portable terminal by substituting entirely with ID number format  
8        by said link information format conversion section, obtains the

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9 corresponding URI by said link information format conversion  
10 section, when the portable terminal demands to obtain content in  
11 ID number format.

1 3. The content supply apparatus of claim 1, comprising:  
2 a prefetch list creation section for detecting link  
3 information to the other contents contained in the divided  
4 content transmitted by said divided content supply means to the  
5 portable terminal for establishing a prefetch list and delivering  
6 to said prefetcher means.

1 4. The content supply apparatus of claim 1, wherein:  
2 said prefetcher means prefetches according to the prefetch  
3 list transmitted from the portable terminal.

1 5. The content supply apparatus of claim 1, wherein:  
2 if the content to prefetch is either the content under pay  
3 content access restriction, or the content that could not be  
4 prefetched due to network trouble or other reason, said  
5 prefetcher means stores that message in said content hold means  
6 matching off against the concerned content URI, and said content  
7 division means, upon the reception of said message during the  
8 search of the content demanded by the portable terminal to obtain  
9 from said content hold means, transmits the message to the  
10 portable terminal.

Table 1. Demographic characteristics of the study population	
Age (years)	65.0 ± 1.5
Gender	
Male	50.0%
Female	50.0%
Education (years)	12.0 ± 1.0
Marital status	
Married	60.0%
Single	40.0%
Occupation	
Retired	70.0%
Unemployed	30.0%
Income (USD/month)	1,200 ± 200
Health status	
Good	60.0%
Fair	40.0%
Poor	0.0%
Comorbidities	
Hypertension	30.0%
Diabetes	20.0%
Cholesterol	10.0%
Arthritis	15.0%
Depression	5.0%
Other	10.0%
Medication	
Yes	40.0%
No	60.0%
Smoking status	
Smoker	10.0%
Non-smoker	90.0%
Alcohol consumption	
Yes	5.0%
No	95.0%

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1 6. The content supply apparatus of claim 1, 2, 3, 4 or 5,  
2 wherein:

3 said content hold means includes a transmission memory  
4 section for holding only contents supplied actually to the  
5 portable terminal, a prefetch memory section for holding only  
6 prefetched content among the other contents referred from the  
7 content held in said transmission memory section, a cache memory  
8 section holding the content the portable terminal had obtained in  
9 the past.

1 7. A machine readable recording media recording a program for  
2 functioning a computer constituting a content supply apparatus,  
3 interposed between a portable terminal and a content server, for  
4 obtaining content demanded by the portable terminal to obtain and  
5 sending to the portable terminal, as

6 a content hold means for holding the content obtained from  
7 the content server;

8 a divided content supply means for obtaining the content  
9 demanded by the portable terminal from said content hold means if  
10 the same exists in said means, and from the content server if the  
11 same does not exist, and transmitting to the portable terminal by  
12 divided content unit of every information amount that can be  
13 displayed by the portable terminal; and

14 a prefetcher means for prefetching the other contents  
15 referred from said divided content, by transmitted divided

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